WMD RECORD CENTER

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# PRELIMINARY ASSESSMENT/ VISUAL SITE INSPECTION

AKZO CHEMICALS, INC. McCOOK, ILLINOIS

FINAL REPORT

#### Prepared for

U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Waste Programs Enforcement
Washington, DC 20460

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## EXECUTIVE SUMMARY



waste management units (SWMU) and other areas of concern (AOC) at the Akzo Chemicals, Inc. facility in visual site inspection (PA/VSI) to identify and assess the existence and likelihood of releases from solid of hazardous wastes or hazardous constituents from SWMUs and AOCs identified McCook, Illinois. This report summarizes the results of the PA/VSI and evaluates the potential for releases B&V Waste Science & Technology, Corp. (BVWST), performed a preliminary assessment and

The facility replaced mercury acetate in their laboratory analysis in 1982 and removed all the hazardous to the sanitary sewer. After 1980, they began to store the waste inside a designated waste storage building control analysis in their laboratory. Prior to the enactment of RCRA, the waste was rinsed down their drain per year of waste mercury acetate (D009) prior to 1982. basins and is treated in a waste water treatment plant. The facility generated approximately 13,000 pounds washdown, runoff and spills from production, packaging and shipping areas. The water collects in catch pad onsite. The facility generates waste water contaminated with fats, oils and greases. The oil is collected in a drum behind the facilities machine shop. When a drum fills it is stored on gravel drums on a gravel pad. The facility also produces a small amount of waste lubrication and hydraulic oil. and composite solids are both managed in 20 cubic yard dumpsters. The distillation bottoms are stored in facility generates three special wastes; salt cakes, distillation bottoms, and composite solids. The salt cakes employees approximately 110 people. The facility has operated at its current location since 1949. The esters, and amphoteric compounds from animal fatty acids and amines. The facility occupies 26.3 acre and waste from their facility. The Akzo facility produces amines, amine salts, quaternary ammonium salts, amineoxides, amides, The facility currently does not generate or store a RCRA hazardous waste The mercury waste was generated during quality

The PA/VSI identified the following eight SWMUs and no AOCs at the facility

# Solid Waste Management Units

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Waste Water Treatment Plant	Waste Oil Drum Storage Area	Distillation Bottoms Storage Are	Composite Solids Dumpster	Salt Cake Dumpster	Salt Cake Drum Storage Area	Catch Basins	Storage Building and Pads

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industrial purposes; its current operational status is unknown or evidence of releases from any of these SWMUs. Drinking water in the vicinity of the plant is obtained from Lake Michigan. There is a low potential for releases to the groundwater from all of the SWMUs. There is no history The closest well is approximately 0.5 mil south of the facility. It was only used for

SWMUs. No evidence of releases from any of these SWMUs was noted. Workers would be the only likely onsite soil contamination from this SWMU. There is a low potential for onsite soil releases from all other and southeast side of the facility. There is a low potential for surface water and air releases from all of the several woods and parks which surround the river and the Brookfield Zoo north across 47th Street. Sensitive environments in the vicinity of the facility include the Des Plaines River, entrance which is either guarded or locked all the time. receptors of onsite soil contamination. (SWMU #7) because of the lack of secondary containment. However, there is no documented history of SWMUs. There is a moderate potential for releases to onsite soils from the waste oil drum storage area Surface water runoff form the facility is toward the southeast into a ditch which surrounds the south The entire facility is enclosed with a fence. The nearest residents to the facility are directly

There are no recommendations for monitoring or sampling at the facility

### 1.0 INTRODUCTION

conduct the PA/VSI for the Akzo Chemicals, Inc. facility. facilities in Region 5. preliminary assessments (PA) and visual site inspections (VSI) of hazardous waste treatment and storage U.S. Environmental Protection Agency (EPA) under Contract No. 68-W9-0006 (TES 9) to conduct PRC Environmental Management, Inc. (PRC), received Work Assignment No. R05032 from the B&V Waste Science & Technology Corp. (BVWST) was contracted by PRC to

process of prioritizing facilities for corrective action. Through the PA/VSI process, enough information is management units (SWMU) and areas of concern (AOC). obtained to characterize a facility's actual or potential releases to the environment from solid waste corrective action using applicable RCRA and CERCLA authorities. The PA/VSI is the first step in the programs are working together to identify and address RCRA facilities that have a high priority for As part of the EPA Region 5 Environmental Priorities Initiative, the RCRA and CERCLA

placed and from which hazardous constituents might migrate, regardless of whether the unit was intended to manage solid or hazardous waste A SWMU is defined as any discernible unit at a RCRA facility in which solid wastes have been

The SWMU definition includes the following:

- underground injection wells impoundments, waste piles, land treatment units, landfills, incinerators, and RCRA-regulated units, such as container storage areas, tanks, surface
- Closed and abandoned units
- generally exempted from standards applicable to hazardous waste management Recycling units, waste water treatment units, and other units that EPA has
- loading-unloading area, or an area where solvent used to wash large parts has constituents. Such areas might include a wood preservative drippage area, a continually dripped onto soils. Areas contaminated by routine and systematic releases of wastes or hazardous

includes any area where such a release in the future is judged to be a strong possibility constituents has occurred or is suspected to have occurred on a nonroutine and nonsystematic basis. An AOC is defined as any area where a release to the environment of hazardous waste or This

The purpose of the PA is as follows:

- Identify SWMUs and AOCs at the facility.
- Obtain information on the operational history of the facility
- Obtain information on releases from any units at the facility.
- Identify data gaps and other informational needs to be filled during the VSI

the EPA Region 5 office in Chicago The PA generally includes review of all relevant documents and files located at state offices and at

The purpose of the VSI is as follows:

- Identify SWMUs and AOCs not discovered during the PA.
- Identify releases not discovered during the PA.
- Provide a specific description of the environmental setting.
- Provide information on release pathways and the potential for releases to each
- and releases. Confirm information obtained during the PA regarding operations, SWMUs, AOCs,

potential sampling locations, and obtaining all information necessary to complete the PA/VSI report SWMUs and AOCs, photographing all SWMUs, identifying evidence of releases, initially identifying The VSI includes interviewing appropriate facility staff, inspecting the entire facility to identify all

walk-through inspection of the facility. Eight SWMUs and no AOCs were identified at the facility conducted on August 9, 1991. It included interviews with Akzo Chemicals, Inc. facility representatives and a Illinois Environmental Protection Agency (IEPA) and from EPA Region 5 RCRA files. The PA was completed on August 7, 1991. BVWST gathered and reviewed information from This report documents the results of a PA/VSI of the Akzo Chemicals, Inc. facility in McCook, The VSI was

from the VSI are included in Attachment B The VSI is summarized and 12 inspection photographs are included in Attachment A. Field notes

# 2.0 FACILITY DESCRIPTION

and receptors. management practices), waste generating processes, release history, regulatory history, environmental setting This section describes the facility's location, past and present operations (including waste

# FACILITY LOCATION

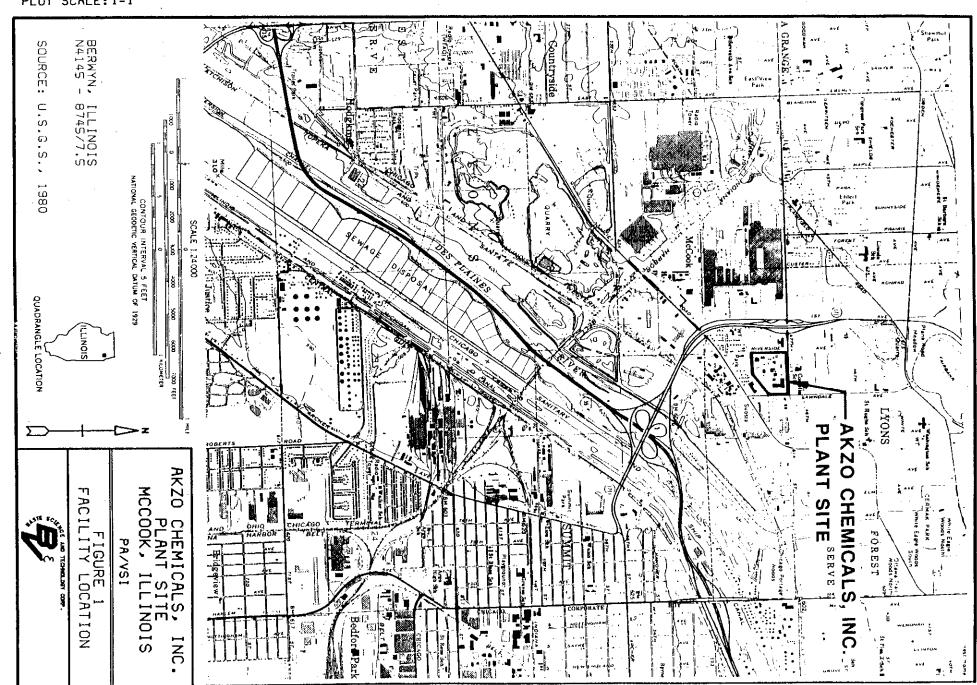
30" (Figure 1). The facility occupies 26.3 acres in a mixed residential and industrial area County, Illinois; Township 38 North, Range 12 East, Section 11; latitude 41° 48' 25" and longitude 87° 49' The Akzo Chemicals, Inc. facility is located at 8201 West 47th Street in the City of McCook, Cook

of Lyons; on the east by Lawndale Avenue and Watkins Motor Lines; on the south by a utility right of way and on the west by Riverside Avenue and the Akzo Research facility. The Akzo facility is bordered on the north by 47th Street and a residential neighborhood of the City

is another entrance on the west side of the facility for railroad deliveries which is usually locked east which is staffed by a guard when the facility is operating, and locked when operations are closed. There A security fence surrounds the Akzo facility. There is an entrance from Lawndale Avenue on the

# 2.2 FACILITY OPERATIONS

amine species are sold as products while others are further distilled. All the amides are distilled to remove of these purified fatty acids are sold as products; others are reacted to produce amides and amine. SWMU locations, is shown in Figure 2. emulsifiers and surfactants. SWMUs at Akzo are listed in Table 1. A layout of the facility, including impurities and long chain species. receive animal fatty acids and amines as raw materials. They distill the fatty acids into pure species. Some Akzo Chemicals Inc. manufactures various fatty acids and their amine and amide derivatives. They The products from this plant are used by other industries primarily as Waste streams are listed in Table 2 Various



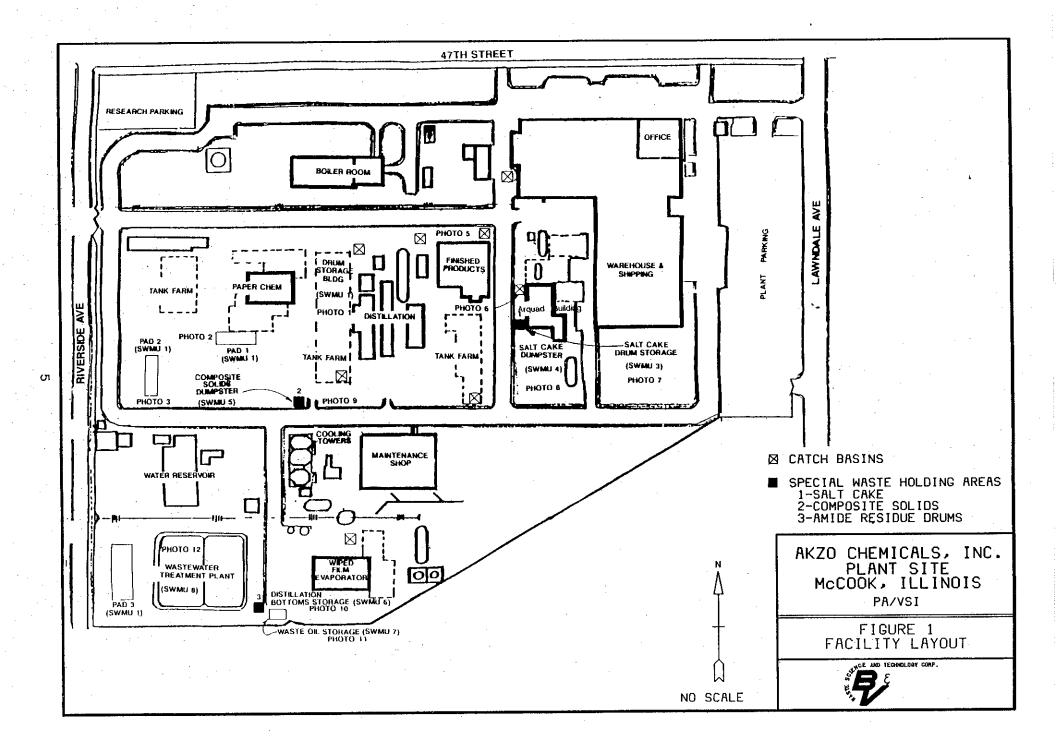


TABLE 1
SOLID WASTE MANAGEMENT UNITS (SWMU)

00	7	6	U <sub>1</sub>	4	ω	2	· <b>+</b>	SWMU Number
Waste Water Treatment Plant	Waste Oil Drum Storage Area	Distillation Bottom Storage Area	Composite Solids Dumpster	Salt Cake Dumpster	Salt Cake Drum Storage Area	Catch Basins	Storage Building and Pads	SWMU Name
No	No	No	No	No	No	No	Yes	RCRA Hazardous Waste Management Unit
Active	Active	Active	Active	Active	Active	Active	Closed	Status

Note:

A RCRA hazardous waste management unit is one that currently requires or formerly required a RCRA Part A or Part B permit.

TABLE 2
SOLID WASTES

Waste/EPA Waste Code	Source Pri	Primary Management Unit(s)
Salt Cake	Amine Production	3, 4
Waste Water Runoff Spills Water	Amine Production	2, 8
Composite Fatty Acids Amides and Amines	Overfill packaging/truck spillage during production, Lab QC analysis	<b>U</b> s
Distillation Bottoms	Distillation of Fatty Acids	6
Waste Oil	Lubrication and Hydraulic Oil	7
Mercury Acetate (D009)*	Laboratory	μ.

Note:

Akzo stopped generating this waste stream in 1982.

facility also has three large above ground tank farms. ethoxylated amines, and amineacetates. The facility has a maintenance shop for equipment repair. product is produced. The products this facility produces include amides, quaternary amines, amine oxides intermediates and products. The facility has a large distillation area where raw fatty acids and nitrogen derivatives are distilled into the facility. Waste waters are treated in a waste water treatment plant before discharge to the sanitary Akzo has operated at its current location since 1949 and currently employees about 110 people Solid wastes are managed in containers, drums, and dumpsters at several locations throughout The intermediates may go through one of numerous reactions before a final The tanks hold raw materials, intermediates, reagents,

# 2.3 WASTE GENERATING PROCESSES

#1) from 1980 till June 2, 1982. Since then the QC Laboratory changed their analytical techniques so no metropolitan sanitary district sewer. when it was all transported offsite. From 1949 to 1980 the waste mercury acetate was discharged to the laboratory produced 2-3 drums per month of mercury acetate (D009) waste from 1949 until June 2, 1982 mercury acetate is generated. They replaced the mercury acetate with iodine monochloride in acetic acid No hazardous wastes are currently generated at the Akzo facility. The Quality Control (QC) The mercury waste acetate was stored in drums in Building 33 (SWMU

#4). The dumpster is hauled to Land and Lakes Landfill number 3 in Chicago, Illinois stored in the collection area (SWMU #3). It is then dumped in a dedicated salt cake dumpster (SWMU Approximately 20 cubic yards are generated every 2 to 3 months during purification of quaternary The salt cake contains table salt (NaCl) and some wasted amines. It is collected in drums and The facility currently generates three IEPA defined special wastes (Table 2). The first is the salt

can accumulate dirt and grime and gum up machinery. The dumpster is disposed of at Land and Lakes The accumulation of the slick fatty material from spills is a safety concern at the plant. The spilled product packaging/truck spillage, other spills not diverted to the catch basins, often including gravel from the yard analysis waste, collected in a small satellite accumulation container, wasted product, overfill of solids, which are placed in a dumpster for disposal (SWMU #5). The solids consist of quality control Landfill number 3 in Chicago, Illinois. The facility produces another 20 cubic yards every 2 to 3 months of what they term composite

evaporator. The distillation bottom contains a mix of long chain fatty acids and amides, which have no product value. The bottom is collected warm from the distillation column in drums. It cools to a solid and The third special waste is a distillation bottom from the production of amides in the wiped

is stored on the distillation bottoms storage pad (SWMU #6) until taken offsite to Beecher Sexton Landfill on Goodenow Road in Beecher, Illinois

It is collected in a drum behind the machine shop. When full, the drum is placed on the waste oil drum storage pad (SWMU #7) until taken offsite to another Akzo facility for fuel blending A small amount of waste lubrication and hydraulic oil is generated by the machinery on the facility

the waste water treatment plant (WWTP) (SWMU #8) where aerobic degradation of the organic material basin and hauled to another Akzo facility approximately once a week for fuel blending. The water goes to The fat material separates from the water and rises to the top of the basin. It is scraped from the top of the collected by the drainage system. Both collect in catch basins (SWMU #2) located throughout the facility. Production water and surface water runoff from the production, packaging, and shipping areas are

released to the sanitary sewer while the rest is returned to the headworks of the plant. vented through a water fume scrubber before being released. Some of the water from the scrubber is processed by the WWTP. The effluent is released to the municipal sanitary sewer. None of the facility's sanitary sewage The top of the basin is capped with sheet metal for odor control.

# 2.4 REGULATORY HISTORY

seen during this inspection. maintains that no hazardous waste has been on site since June 1982. No evidence of hazardous waste was Akzo Chemicals Inc. currently does not routinely generate RCRA hazardous waste. The facility

March 1981 this list was reduced to only D009; the other materials are all raw materials (EPA, 1980). (EPA, D009, as well as D001, U002, U003, U009, U103, U115, U154, U122, U171, U147, and P100 wastes. The facility submitted its first RCRA Part A application as a TSD and Generator in August 1980 This application listed process codes for container storage (S01) of 13,000 pounds per year,

January 1987 by IEPA (IEPA, 1987). (SWMU #1). The plan was implemented during 1985 and 1986. Closure of the storage areas was approved On August 7, 1985 IEPA approved a closure plan for building 33 and the three drum storage pads

packaging of flaked fatty acids, fatty amines and fatty amides, some of the flakes escape to the air. also has an operating permit for their waste water treatment plant is used to collect the flakes. The facility has an air permit from IEPA for a particulate bagging devise (IEPA, 1983). They are then returned to the product when the bag is cleaned. The facility During The bag

## 2.5 RELEASE HISTORY

dug up and neutralized onsite. The spill was the result of a small hole in the weld of the discharge line in a sulfuric acid storage tank. on various areas of the facility. facility immediately plugged the hole and began to neutralize the acid with soda ash. On July 2, 1990 Akzo reported a spill of 2,300 pounds of sulfuric acid on their facility (Akzo 1990). The neutralization was done with soda ash. The soil was used as fill and spread The area of the spill was

No other spills have been reported on the Akzo facility.

# 2.6 ENVIRONMENTAL SETTING

#### 2.6.1 Climate

The average wind speed is 10.3 mph spring, from the southwest in the summer, and from the south-southwest in the fall (Ruffner and Bair, 1977). (NWB, 1991). The greatest twenty-four hour rainfall was 9.35 inches in August 1987. The average snowfall is 38.2 inches The average daily minimum temperature is 39.7° F. The average annual precipitation is 33.3 inches The climate of Illinois is humid continental type. The prevailing wind is from the west in the winter, from the west and south-southwest in the The annual average daily maximum temperature is

# 2.6.2 Flood Plain and Surface Water

through the waste water treatment plant to the sanitary sewer approximately 3300 feet away. Surface water drainage in the area of the Akzo facility is to the southeast to the Des Plaines River, Surface water from the plant production areas drains into the catch basins and

The Akzo facilities lies above the 500 year flood plain. (FEMA, 1991).

## 2.6.3 Geology and Soils

near-surface soil near Akzo Chemicals Inc. as level and gently sloping, poorly drained loamy or silty subsoil resulting in bottom lands and terraces (USDA, 1979) because of urban land use. However, the report supplies a regional soil map that classifies the Much of Cook county has not been mapped at a detailed level by the U.S. Department of Agriculture

clay, till, and outwash) over Paleozoic sedimentary rock units. No site-specific information on the stratigraphy is presently available. However, a detailed statewide study by Berg and Kempton provides regional three-Geology at the site is expected to be comprised of an unknown thickness of glacial deposits (lacustrine

suggests a discontinuous alluvium less than 20 feet thick, over a silty clayey till of less than 20 feet. Silurian and Devonian rock, mainly dolomites bedrock surface is expected to be between 20 and 50 feet below the surface. The bedrock is expected to be dimensional mapping of geologic materials to a depth of 50 feet (Berg and Kempton, 1988). Their

#### 2.6.4 Groundwater

sand and gravel deposits are correspondingly thin or are absent. Virtually all wells drilled will have to penetrate properties and recharge source areas (Hughes et al., 1966). In central Cook County the glacial drift is thin and system, the shallow bedrock system, and two deep bedrock systems. They are distinguished by their hydrologic bedrock for groundwater supplies. Groundwater is obtained from four major aquifer systems in northeastern Illinois -- the glacial drift (Bergstrom et al., 1955).

from precipitation (Hughes et al., 1968). The facility lies in an area where dolomite lies directly below the glacial drift which yields groundwater through aquifer is obtained from fractures and solution openings in the Silurian dolomite beds (Hughes et al., 1966). contact, and the lower boundary is the middle Ordovician age Galena-Platteville Dolomite. Water form this mainly comprised of the Silurian dolomite formations. open crevices and channels (Bergstrom et al., 1955). The shallow bedrock aquifer system is recharged locally The shallow bedrock aquifer system in northeastern Illinois underlies the glacial drift system and is The upper boundary of this system is the bedrock-drift

through leakage downward through the shallow bedrock aquifer system (Hughes et al., 1966). area, where rocks corp out at the surface or lie immediately below the glacial drift. Minor recharge does occur Recharge to the deep bedrock aquifer systems is mostly from west and north of the six county metropolitan (gpd/sq. ft.). The Ironton-Galesville Sandstone aquifer has a permeability between 300 and 400 gpd/sq. ft. 200 gallons per minute (gpm). This unit has a permeability between 9 and 15 gallons per day per square foot aquifer and the Ironton-Galesville aquifer. The top of the Cambrian-Ordovician aquifer system is the Galenaaquifer system. The deep bedrock aquifer systems include the Cambrian-Ordovician aquifer system and the Mt. Simon The Cambrian-Ordovician aquifer system contains two major aquifers, the Glenwood-St. Peter The Glenwood-St. Peter aquifer is widely utilized where water requirements are less than

the outcrop region of Cambrian rocks in central southern Wisconsin (Willman, 1971). average permeability of the aquifer system is 16 gpd/sq. ft. (Hughes et al., 1966) and recharge is largely from the upper and middle Eau Claire Formation and below by the crystalline pre-Cambrian basement rock. The Mt. Simon aquifer system is bounded above by the relatively impermeable shales and siltstones of

#### 2.7 RECEPTORS

approximately 20 schools in the vicinity. Within a two-mile radius of the facility are the villages of Brookfield (population 19,395), Countryside Riverside (population 8,758), and Summit (population 10,110) (Illinois Blue Book, 1987). (population 6,510), Forest View (population 743), LaGrange (population 15,690), Lyons (population 9,925), has a population of 303. McCook is a part of the Chicago metropolitan area (population 10 million) nearest residential area is approximately 500 feet north of the facility. It lies in the village of McCook, which The Akzo Chemicals, Inc. facility occupies 26.3 acres in a mixed residential and industrial area. The

approximately 1/2 mile from the facility at Universal Oil Products. It was used for industrial purposes. by the City of Chicago. Whether the well is currently operational or not is unknown The Akzo facility and the village of McCook are supplied with potable water from Lake Michigan No wells are located on the facility property. The closest groundwater well lies

no wetlands greater than two acres in size or critical habitats within two miles of the facility Woods, Creek; a five-mile stretch of the Des Plaines River, the Chicago River, and the Chicago Sanitary and Ship Also located in the area are one to two square miles of forest preserves, including Brookfield Chicago Portage Woods, Ottawa Trail Woods, Plank Road Meadow, White Eagle Woods and Zoo Finally, the Brookfield Zoological Park is approximately 1.75 miles north of the facility. There are Sensitive environments within a two-mile radius of the facility include a one-mile stretch of the Salt

operations and locked when the facility is closed. Visitors to the facility must sign in before being allowed to The facility is secured by a chain-link fence. The main entrance is guarded during business

# 3.0 SOLID WASTE MANAGEMENT UNITS (SWMUs)

history of release, and BVWST observations. presented for each SWMU: description of the unit, dates of operation, wastes managed, release controls, This section describes the eight SWMUs identified during the PA/VSI. The following information is

SWMU 1 Storage Building and Pads

Unit Description The RCRA Hazardous Waste Storage Building and Pads were designed to

hold 235,000 gallons of material (Photos 1, 2, 3, and 4). The building was

the only unit that actually ever stored hazardous waste. The building is

approximately 20 feet by 30 feet in size. The floor is made of concrete.

Date if Startup: This unit began operations in 1980

Date of Closure: Closure was completed on February 20, 1986. The facility maintains that

all hazardous waste was removed from the site in 1982.

Wastes Managed: Mercury Acetate, (D009) was managed in this unit from 1980 until 1982

Release Controls: The concrete floor is sloped toward a catch trough, which would prevent a

release from the building.

History of Release: No releases from this SWMU have been documented

The building is maintained in the event that unforseen activities require

Observations:

storage capacity. No evidence of current storage activities or release from

this unit was observed.

Catch Basins

SWMU 2

Unit Description:

collect spills and surface water runoff from all production and packaging There are approximately six catch basins which are located so they can

areas. Water is routed to the catch basins through in-ground concrete

constructed of concrete and metal. to another Akzo facility for fuel blending. The catch basins are the basin about once a week (Photos 5 and 6). Water Treatment Plant (SWMU #8). The fats are skimmed off the top of drains. Water and fats separate in the basin. The water goes to the Waste The fats are taken offsite

Date of Startup:

These units have been in operation since 1949.

White Manage

Date of Closure:

This unit is currently active.

Wastes Managed:

water contains all the aliphatic nitrogen derivatives the facility produces. Surface water runoff, production spills, overfill of packaging or trucks. The

Release Controls:

There are no release controls for this unit.

History of Release:

No releases from this SWMU have been documented.

Observations:

evidence of releases was observed. The units all appeared to function well as water, fatty acid separators. No

SWMU 3

Salt Cake Drum Storage Area

Unit Description:

approximately a 10 feet by 10 feet area. inspection. Approximately ten drums labeled salt cake were stored at the time of the The area is located on the loading dock of the arquad building (Photo 7). The area is a covered concrete loading dock. It is

Date of Startup:

This unit began operation in 1953.

Date of Closure:

This unit is currently active

Wastes Managed:

special wastes by IEPA. (NaCl, table salt), waste amines, and filter paper. These are classified as This unit manages salt cakes with filter paper; the salt is sodium chloride

Release Controls:

steel drums to prevent release. The floors of the loading dock are concrete. The salt is stored in covered

History of Release:

No releases from this SWMU have been documented.

Observations:

of releases was observed. This area appeared clean and compatible with drum storage. No evidence

SWMU 4

Salt Cake Dumpster

Unit Description:

cake waste (Photo 8). It is located on a gravel lot south of the arquad This unit is a 20-cubic-yard, metal, uncovered dumpster dedicated for salt

Date of Startup:

This unit began operation in 1953.

.

Date of Closure:

This unit is currently active.

Wastes Managed:

This unit contains salt cakes, filter paper and waste quaternary amines classified a special waste by IEPA. The waste is disposed of offsite. from production of quaternary amine sodium chloride The salt cake is

Release Controls:

There are no release control for this unit.

History of Release:

se: No releases from this SWMU have been documented

Observations:

No evidence of releases was observed.

SWMU 5

Composite Solids Dumpster

Unit Description:

the maintenance shop and the cooling towers. composite solid wastes (Photo 9). It is centrally located in the facility near This unit is a 20 cubic yard, metal, uncovered dumpster dedicated for

Date of Startup:

This unit began operation in 1949.

Date of Closure: This unit is currently active.

Wastes Managed: wastes and bottles, spilled product clean-up, overfill of packaging or trucks, and other wasted product. This waste is classified by IEPA as a special This unit contains composite solids, composed of laboratory QC analysis

waste. This waste is disposed of offsite

Release Controls: The dumpster located on an asphalt drive.

History of Release: No releases from this SWMU have been documented.

Observations: No evidence of releases were observed.

SWMU 6 Distillation Bottoms Storage Area

This unit is an uncovered gravel pad which has a capacity for

Unit Description:

of the facility near the waste water treatment plant (SWMU #8). approximately 80 drums (Photo 10). The pad is located on the south side

unit has an area of approximately 40 feet by 10 feet.

Date of Startup: This unit began operations in 1973.

Date of Closure: This unit is currently active.

Wastes Managed:

amides. The waste consists of long chain amides, fatty acids, and other This unit manages distillation bottoms generated during the purification of

impurities in a solid form. This waste is classified by IEPA as a special

waste.

Release Controls: There is no release control mechanism for the gravel pad

History of Release: No releases from this SWMU have been documented

appeared to be in good condition. No evidence of releases was observed. Approximately 50 closed drums were present on this SWMU. They all

Observations:

#### SWMU 7

## Waste Oil Drum Storage Area

Unit Description:

Storage Area (SWMU #6). waste water treatment plant (SWMU #8) and the Distillation Bottoms This unit is an outdoor gravel pad which has the capacity for approximately 1 drum (Photo 11). It is located on the south side of the facility near the

Date of Startup:

This unit began operation in 1949.

Date of Closure:

This unit is currently active

Wastes Managed:

Release Controls:

Waste lubrication and hydraulic oils are stored on this unit.

There is no release control mechanism for the pad

History of Release:

No releases from this SWMU have been documented

Observations:

good condition. No evidence of releases from this unit was observed One closed drum was observed on this SWMU and it appeared to be

#### SWMU 8

Unit Description:

# Waste Water Treatment Plant

the aeration basin. sanitary district. The proportion of sludge wasted is based on the load in sludge is recycled to the aeration basin. Some sludge is wasted to the consist of biological solids, is settled out of the waste water. Most of the only one basin at a time. facility originally built and used two aeration basins but they currently use organic constituents in the waste water occurs in the aeration basin. The water flow is regulated and nutrients are added in the influent chamber. is for influent waste water from the catch basins (SWMU #2). Waste facility (Photo 12). It consists of three main chambers. The first chamber The waste water treatment plant is located outside on the south side of the The second chamber is the aeration basin. Biological oxidation of the The treated waste water effluent goes to the municipal The third chamber is a clarifier. Sludge, which

Date of Startup:

reduced in 1983 from two basins to one. This unit began operations in 1971. The unit's operating capacity was

Date of Closure:

basins is currently used at any time. Half of the capacity of this unit has been closed. Only one of two aeration

Wastes Managed:

areas containing water and mixed fats, oils and greases. Surface runoff and washdown from production, shipping, and packaging

Release Controls:

The facility is diked all the way around, runoff is returned to the odor releases. Gas is vented through a water scrubber before being headworks of the plant. The basin is covered with sheet metal to control released.

History of Release:

No releases from this SWMU have been documented.

Observations:

releases from this unit was observed. This SWMU was observed in operation without incident. No evidence of

## 4.0 AREAS OF CONCERN

No areas of concern on the Akzo facility were observed during this site inspection.

RIN # 294475

CONFINENT

# 5.0 CONCLUSIONS AND RECOMMENDATIONS

conclusions and recommendations for each SWMU. Table 3 identifies the SWMUs at the Akzo Chemicals condition, is discussed in Section 3.0. AOCs are discussed in Section 4.0. Following are BVWST's as the unit's description, dates of operation, wastes managed, release controls, release history, and observed history, environmental setting, and receptors is presented in Section 2.0. information on the facility's location, operations, waste generating processes, release history, regulatory facility and suggested further actions. The PA/VSI identified eight SWMUs and no AOCs at the Akzo Chemicals facility. Background SWMU-specific information, such

SWMU 1 Storage Building and Pads

Conclusions: These units underwent formal closure proceeding in 1985 and 1986. Testing was

done and no evidence of release was found. There is no potential for release

from these units to groundwater, surface water, air and onsite soils.

Recommendations: No further actions are suggested, because no wastes are stored on this unit and

formal closure has already occurred.

SWMU 2 Catch Basins

Conclusions: There is no potential for release to air because of the nature of the material.

There is a low potential for release to the groundwater, surface water and onsite

The production, packaging and shipping areas are all sloped toward the

catch basin drains and surrounded by berms.

Recommendations: No further actions are suggested

SWMU 3 Salt Cake Drum Storage Area

Conclusions: There is a low potential for release to the air, onsite soils, groundwater or surface

water. The salt cakes are solid and contain sodium chioride (NaCl, table salt)

and quaternary amines. Any spills would be contained on the dock

Recommendations: No further actions are suggested

INITIALS. 9

SWMU 4

Conclusions:

Salt Cake Dumpster

is a low potential for a release to occur to the surface water, onsite soils, and There is no potential for release to the air because the material is a solid. There

eventually to the groundwater. The potential for release is dependant on the

integrity of the dumpster and the amount of precipitation which falls on it.

Recommendations:

No further actions are suggested. The material is primarily table salt and

therefore poses no environmental threat. The quaternary ammonium compounds

are also environmentally benign and pose no threat.

SWMU 5

Conclusions:

Composite Solids Dumpster

There is no potential for air release from this unit because of the nature of the

material. There is a low potential for a release to occur to the surface water, and

onsite soils. The potential for release is dependent on the integrity of the unit

and the amount of precipitation which falls on it.

Recommendations:

No further actions are suggested.

SWMU 6

Conclusions:

Distillation Bottoms Storage Area

There is no potential for air release from this unit because the material is a solid.

There is a low potential for a release to occur to the surface water, onsite soils or

The distillation bottom is a solid wax-like material which would be

easily captured if spilled.

Recommendations:

No further actions are suggested

SWMU 7

Conclusions:

Waste Oil Drum Storage Area

There is a moderate potential for a release to onsite soils. There is a low

is no secondary containment for the storage area. There is rarely more than one potential for a surface water, groundwater, and air release from this unit. There

drum of waste oil on the pad at any time.

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Recommendations:

are recommended. Because of the small volume of oil handled on the storage area, no further actions

8 DIMWS

Waste Water Treatment Plant

Conclusions:

because of adequate secondary containment. potential for a release to onsite soils, groundwater, or surface water is low There is no potential for an air release because of the odor recovery system. The

Recommendations:

No further actions are suggested.

#### TABLE 3

#### SWMU SUMMARY

SWMU	Operational Dates	Evidence of Release	Suggested Further Action
1. Storage Building & Pad	1980 - 1986	None	No further action
2. Catch Basin	1949 - present	None	No further action
3. Salt Cake Drum Storage Area	1953 - present	None	No further action
4. Salt Cake Dumpster	1953 - present	None	No further action
5. Composite Solid Dumpster	1949 - present	None	No further action
<ol><li>Distillation Bottoms Storage Area</li></ol>	1973 - present	None	No further action
7. Waste Oil Drum Storage Area	1949 - present	None	No further action
8. Waste Water Treatment Plant	1971 - present	None	No further action

#### REFERENCES

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#### ATTACHMENT A

VISUAL SITE INSPECTION SUMMARY AND PHOTOGRAPHS

# VISUAL SITE INSPECTION SUMMARY

Akzo Chemicals Inc. McCook, Illinois ILD057833642

Date:

August 9, 1991

Facility Representatives: Richard Hanzlik, Environmental Engineer Katherine Rollins, Environmental Engineer Lawrence Keller, Senior Environmental Engineer Walter Dion, Environmental Services Manager

Inspection Team: Stephen Mehay, B&V Waste Science and Technology Corp. Eric Turnquest, B&V Waste Science and Technology Corp.

Photographer: Eric Turnquest

Sunny and clear, temperature between 75°F and 80°F.

Summary of Activities:

Weather Conditions:

Eric Turnquest began the meeting with a discussion of the purpose of the VSI and the agenda for the visit. The meeting continued with Walter Dion activities and the environmental setting. providing a description of facility operations and overview of the plant layout. The inspection team asked questions about waste management The visual site inspection began at 9:30 a.m. with an introductory meeting.

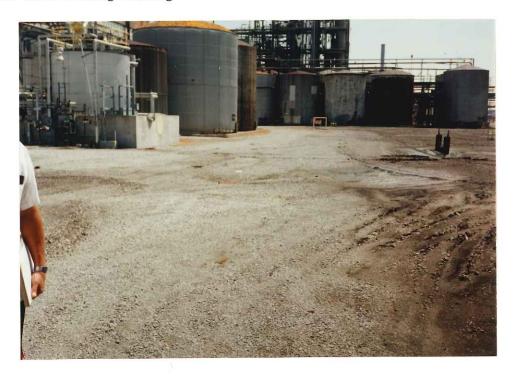
The tour of the facility commenced after the introductory meeting at approximately 10:20 a.m. The tour generally consisted of all the documentation be sent. The VSI was completed at 12 p.m. the inspection team asked some final questions and requested that certain production areas and waste management processes. At 11:45 a.m., the tour was finished and a brief exit meeting began. During the exit meeting



Photograph No. 1 Orientation: South

Description: Inside of Storage Building

Location: SWMU 1 Date: 08/09/91



Photograph No. 2 Orientation: East

Description: Number 1 Storage Pad Area

Location: SWMU 1 Date: 08/09/91



Photograph No. 3 Orientation: North

Description: Number 2 Storage Area

Location: SWMU 1 Date: 08/09/91



Photograph No. 4
Orientation: South

Orientation: South
Description: Number 3 Storage Pad Area

Location: SWMU 1 Date: 08/09/91



Photograph No. 5 Orientation: West Description: Catch Basin

Location: SWMU 3 Date: 08/09/91



Photograph No. 6 Orientation: East Description: Catch Basin

Location: SWMU 2 Date: 08/09/91



Photograph No. 7 Orientation: Southeast Description: Salt Cake Drum Storage Area

;

Location: SWMU 3 Date: 08/09/91



Photograph No. 8 Orientation: South

Description: Salt Cake Dumpster

Location: SWMU 4 Date: 08/09/91



Photograph No. 9 Orientation: East

Description: Composite Solids Dumpster

Location: SWMU 5 Date: 08/09/91



Photograph No. 10

Orientation: South
Description: Distillation Bottoms Storage Area

Location: SWMU 6 Date: 08/09/91



Photograph No. 11 Orientation: South

ţ

;

Description: Waste Oil Drum Storage Area

Location: SWMU 7 Date: 08/09/91



Photograph No. 12 Orientation: South

Description: Waste Water Treatment Plant

Location: SWMU 8

Date: 08/09/91

ATTACHMENT B

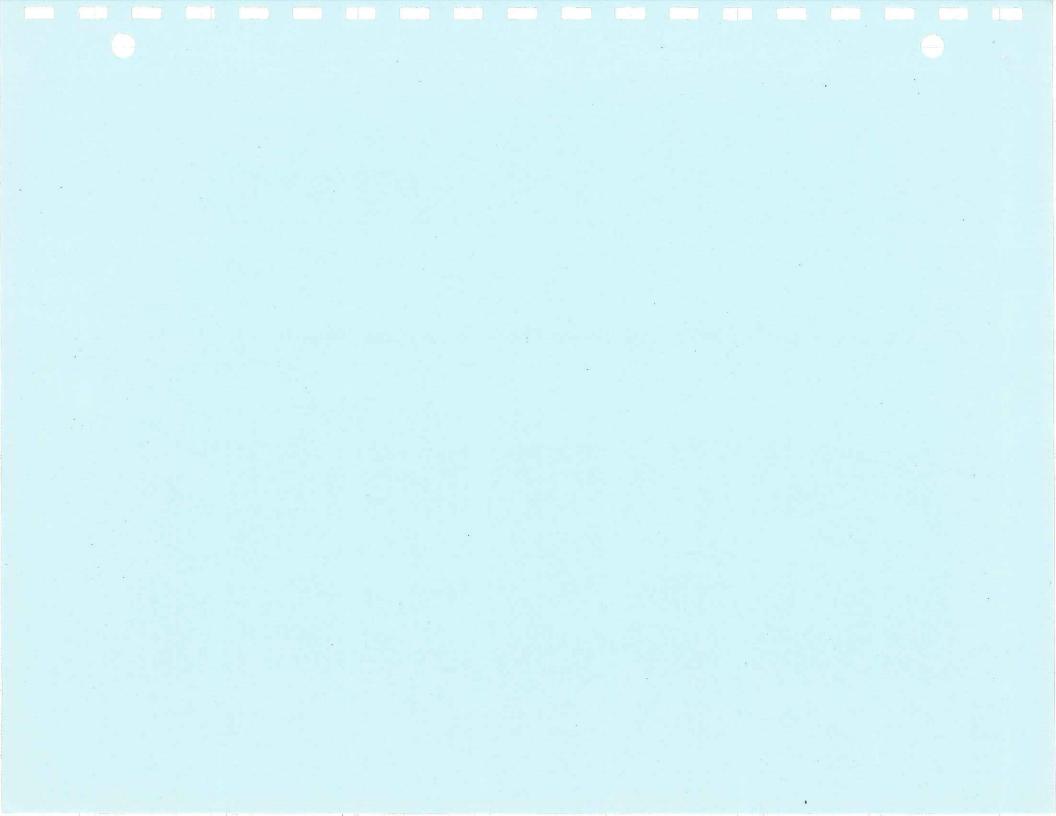
VISUAL SITE INSPECTION FIELD NOTES

Akzo Chamicals 45570.040 Sunny Wind End Tunguest Steve Mehay North Residential Lyons West Akzo Research / 171/ large wirehouse EAST Industrial South - Residential - Mc Cook Park District Blds & Playgownd: Bell Frell. Facility Operation Animal & Veg derived Fats & Acids - Suppliar Raw Makerial Fatty Acids - Amines Fas - pucity wy distillation -> sell - React w/ Ammonin -> Amides -> Sell - Ethoxylate in Etax -> Ethylem oxide Received Amines distill 10-20-30 Fully Amines -> ethoxylates -> 4 Aung nion Compounts. G

Amides- Ethoxylate adistille No Haz waste Amme Oxides special Wastes 3° Amines + Hro, - Amilo Oxides. DNaCI Sold cake -Blends For Heady Coat series Bicarb - 20473/2-3000 - Asphault Enulations 2 Composite Solids 20413/23no - Packaging - Drums Beys Fiberdiums. Non Haz product - spillage 1990 - Stopped Making Amires Fat spliter. Batch Hydrile 3) Pistillation Bottons White Ailan evaporator Batch Hydriggeration Pist Clation unit Crystillizer Cools to solid in Drums Long Chain FA - C18- C22 # amployees\_110 - plant 80 droms /3mo - Gate - 24 hr govoded - mækends lentrance. Dil - Weste De Lub - Hydraulte Alentrance in back SM Quantity?

Gasoline Remarco isgraph Model Filled in Granu Village Alc Cook - City potable - process water Photo 7 - Composit Solik Storage Weste libter -> Sanitary Sever 7 250 - 350 at 60 reatment Photo 2 - West- Draing - Praduction - Meoss water treatment - Cath Rasin - WLOTP Aerobic--Trepchel- Anof waters Photo 3- Cast - Catal Basin - Production Fled back Through Proto 4-56-Salt Cake Files Droms Las waste - QC Las - Storage Area - Mejeury Acetate -June 2 1982 - All Shipped S \_ Salbdake Dingster. Product Storage Brans & Orange 6 waste oil - Werth - Muchieston Ruroffwiter - From All process Areas - wwTP. Bottons Drun storage Area South Lourdoff Sn

18-16-1 wask 011 - South Las Samples QC South boundary plant Over :0111 Next to photo 7. Spillage activities 9- WUTP basin - \$ W corper property South- raised for afor 14- Blds 33 -Main Storge of control vented Through Meicry Acetale Water Time Scribber. South -- Closer Pod lacked 10 + 13 Final Resorve Red Stocase wothing show (Product) From catch ener. Swcorner -Spoth. Dosins- Collected - placed in #2 Pad Stocage fred Mover Tank & Trucked affsite. USPO / West North. South- Residential- Hermont American 12- #11- Pad storage, # AST McCook Park District - Usad Soldonly, - emptions East-Truck Firm Industrial. 13 Composit Splid Dympster West - Open Lot Research EASI W 361



RELEASED
DATE 10-2295
RIN # 2999
INITIALS MU

# M

## CORRECTIVE ACTION STABILIZATION QUESTIONNAIRE

Completed by:	Mary Wo	ojciechowski	EAST		
Date:	March 1	2, 1992	- CON	FIDENTIAL	
Background Fac	ility Inforn	nation	Выпатоской убличения и под дого.		
Facility Name: EPA Identificati	on No.	Akzo Chemicals, I	nc.	American Committee (1997) When the second se	VIII CHUER
Location (City, S Facility Priority	State):	ILD 057 833 642 McCook, Illinois Low	1		3 ° 1 ° 3 ° 3 ° 3 ° 3 ° 3 ° 3 ° 3 ° 3 °
solid waste n	nanagemen Us, or the	ompleted for one t unit (SWMU), entire facility?	3. If corrective action a initiated, are they be under a permit or an  () Operating permit () Post-closure permit () Enforcement orde	eing carried out enforcement order t mit	?
			(X) Other (Explain)  No actions are underway	1	 
Facility  2. What is the corrective acfacility?  () No correinitiated (X) RCRA Fequivaler	current statestion activition active action (Go to 5) facility Assent complete	ties at the n activities essment (RFA) or	4. Have interim measure completed [see Quest successful in prevent spread of contaminate () Yes 0 for the US () No () Uncertain; still un RCRA unit (X) Not required Additional explanators	tion 2], been ting the further tion at the facility?  Ts  Inderway - for the	
underwa () RFI com () Corrective complete () Corrective (CMI) be	y pleted ve Measure d ve Measure egun or con	s Study (CMS) s Implementation	There is no evidence to or threat of contamination		<u>ee</u>  

Facility Releases and Exposure Concerns	Additional explanatory notes:
5. To what media have contaminant releases	
from the facility occurred or been	
suspected of occurring?	
-	·
() Ground water	
() Surface water	8a. Are environmental receptors currently
() Air	being exposed to contaminants released
() Soils	from the facility?
None	
	() Yes (Go to 9)
6. Are contaminant releases migrating off-	(X) No
site?	() Uncertain
() Yes; Indicate media, contaminant	Additional explanatory notes:
concentrations, and level of certainty	·
Groundwater:	
Surface water:	*
Air:	
Soils:	
(X) No	8b. Is there a potential that environmental
() Uncertain - for container storage	receptors could be exposed to the
area	contaminants released from the facility
	over the next 5 to 10 years?
7a. Are humans currently being exposed to	·
contaminants released from the facility?	() Yes
·	(X) No
( ) Yes (Go to 8a)	() Uncertain
(X) No	
() Uncertain	Additional explanatory notes:
Additional explanatory notes:	
There is no evidence to support the existence	<u>e</u>
or threat of contamination at the facility.	_
	-
	-
7b. Is there a potential for human exposure	
to the contaminants released from the	
facility over the next 5 to 10 years?	·
·	
() Yes	
(X) No	I
() Uncertain	

Anticipated Final Corrective Measures	Additional explanatory notes:
9. If already identified or planned, would final corrective measures be able to be implemented in time to adequately address any existing or short-term threat to human health and the environment?	
() Yes (X) No () Uncertain	Technical Ability to Implement Stabilization Activities
Additional explanatory notes:	12. In what phase does the contaminant exist under ambient site conditions? Check all that apply.
There is no evidence to support the existence or threat at the facility.	() Solid (X) Light non-aqueous phase liquids (LNAPLs)
10. Could a stabilization initiative at this facility reduce the present or near-term (e.g., less than two years) risks to human health and the environment?  () Yes (X) No	<ul> <li>() Dense non-aqueous phase liquids (DNAPLs)</li> <li>() Dissolved in ground water or surface water</li> <li>() Gaseous</li> <li>(X) Other None</li> </ul>
() Uncertain  Additional explanatory notes:	groupings are of concern at the facility?  (X) Volatile organic compounds (VOCs)
There is no evidence to support the existence of risks to human health or the environment at the facility.	and/or semi-volatiles () Polynuclear aromatics (PAHs) () Pesticides () Polychlorinated biphenyls (PCBs) and/or dioxins
11. If a stabilization activity were not begun, would the threat to human health and the environment significantly increase before final corrective measures could be implemented?	<ul> <li>() Other organics</li> <li>(X) Inorganics and metals</li> <li>() Explosives</li> <li>() Other</li> </ul>
() Yes (X)No () Uncertain	

14. Are appropriate stabilization technologies available to prevent the further spread of contamination, based on contaminant	Timing and Other Procedural Issues Associated with Stabilization
characteristics and the facility's environmental setting? [See Attachment A for a listing of potential stabilization technologies.]	16. Can stabilization activities be implemented more quickly than the final corrective measures?
() Yes; Indicate possible course of action.	() Yes () No () Uncertain
	Additional explanatory notes:
(V) No. Indicate who stabilization	
<ul><li>(X) No; Indicate why stabilization technologies are not appropriate; then</li></ul>	
go to Question 18.	
There is no evidence to support the existence	17. Can stabilization activities be incorporated into the final corrective
or threat of contamination at this facility.	measures at some point in the future?
	() Yes
	() No
15 Tree the DEL or enother environmental	() Uncertain
15. Has the RFI, or another environmental investigation, provided the site characterization and waste release data	Additional explanatory notes:
needed to design and implement a stabilization activity?	
•	
() Yes	
() No	
If No, can these data be obtained faster than the data needed to implement the final corrective measures?	
( ) Yes ( ) No	
	1

# 18. Is this facility an appropriate candidate for stabilization activities? ( ) Yes ( ) No, not feasible ( X ) No, not required Explain final decision, using additional sheets if necessary. There is no evidence to support the existence or threat of contamination at this facility.

Conclusion



### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 5 230 SOUTH DEARBORN ST. CHICAGO, ILLINOIS 60604

RECEIVED ARR 0 8 1993
RECORD CENTER Comp

REPLY TO ATTENTION OF:

5HR-12

July 30, 1991

Ms. Kathy Rollins Environmental Engineer AKZO Chemicals Inc. 8201 West 47th St. McCook, IL 60525

> Re: Visual Site Inspection AKZO Chemicals Inc. ILD 057833642

Dear Ms. Rollins:

The United States Environmental Protection Agency (U.S. EPA) Region V will conduct a Preliminary Assessment and Visual Site Inspection (PA/VSI) at the referenced facility. This inspection is conducted pursuant to the Resource Conservation and Recovery Act, as amended (RCRA) and the Comprehensive Environmental Response, Compensation, and Liability Act, as amended (CERCLA). The PA/VSI requires identification and systematic review of all solid waste streams at the facility. The objective of the PA/VSI is to determine whether or not releases of hazardous wastes or hazardous constituents have occurred or are occurring at the facility which may require further investigation. This analysis will also provide information to establish priorities for addressing any confirmed releases.

The visual site inspection of your facility is to verify the location of all solid waste management units (SWMUs) and areas of concern, and to make a cursory determination of their condition by visual observation. The VSI supplements and updates data gathered during a preliminary file review. During this site inspection, no samples will be taken. A sampling visit to ascertain if releases of hazardous waste or constituents have occurred may be required at a later date.

Assistance of some of your personnel may be required in reviewing solid waste flow(s) or previous disposal practices. The site inspection is to provide a technical understanding of the present and past waste flows and handling, treatment, storage, and disposal practices. Photographs of the facility are necessary to document the condition of the units at the facility and the waste management practices used.

The VSI will be conducted on August 6, 1991, beginning at 9:00 a.m. The inspection team will consist of Steve Mehay and Anil Saxena of B&V Waste Science and Technology Corp., contractors for the U.S. EPA. Representatives of the Illinois Environmental Protection Agency (IEPA) may also be present. Your cooperation in admitting and assisting them while on site is appreciated.

The U.S. EPA recommends that personnel who are familiar with present and past manufacturing and waste management activities be available during the VSI. Access to any relevant maps, diagrams, hydrogeologic reports, environmental assessment reports, sampling data sheets, manifests and/or correspondence is also necessary, as such information is needed to complete the PA/VSI.

If you have any questions, please contact me at (312) 886-4448 or Sheri Bianchin at (312) 886-4446. A copy of the Preliminary Assessment/Visual Site Inspection Report, excluding the conclusions portion, may be made available upon request.

Sincerely yours,

Kevin M. Pierard, Chief

OH/MN Technical Enforcement Section

cc: Larry Eastep, IEPA - Springfield Cliff Gould, IEPA - Maywood



### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 5 230 SOUTH DEARBORN ST. CHICAGO, ILLINOIS 60604

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REPLY TO ATTENTION OF: 5HR-12

August 5, 1991

Ms. Kathy Rollins Akzo Chemicals Inc. 8201 West 47th Street McCook, IL 60525

> Re: Visual Site Inspection Akzo Chemicals Inc. ILD 057833642

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Assistance of some of your personnel may be required in reviewing solid waste flow(s) or previous disposal practices. The site inspection is to provide a technical understanding of the present and past waste flows and handling, treatment, storage, and disposal practices. Photographs of the facility are necessary to document the condition of the units at the facility and the waste management practices used.

The VSI has been rescheduled for August 9, 1991, beginning at 9:00 a.m. The inspection team will consist of Steve Mehay and Eric Turnquist of

B&V Waste Science and Technology Corp., contractors for the U.S. EPA. Representatives of the Illinois Environmental Protection Agency (IEPA) may also be present. Your cooperation in admitting and assisting them while on site is appreciated.

The U.S. EPA recommends that personnel who are familiar with present and past manufacturing and waste management activities be available during the VSI. Access to any relevant maps, diagrams, hydrogeologic reports, environmental assessment reports, sampling data sheets, manifests and/or correspondence is also necessary, as such information is needed to complete the PA/VSI.

If you have any questions, please contact me at (312) 886-4448 or Sheri Bianchin at (312) 886-4446. A copy of the Preliminary Assessment/Visual Site Inspection Report, excluding the conclusions portion, may be made available upon request.

Sincerely yours,

Kevin M. Pierard, Chief

OH/MN Technical Enforcement Section

cc: Larry Eastep, IEPA - Springfield Cliff Gould, IEPA - Maywood

# CERTIFICATION REGARDING POTENTIAL RELEASE FROM SOLID WASTE MANAGEMENT UNITS

FACILITY NAME:	AKZO CHEMIF	AMERICA (AF	RMAK CHEMIC	ALS)
PA I.D. NUMBER:	ILD05783364	42		
OCATION CITY:	McCOOK			v
STATE:		0505		
SIAIE:	ILLINOIS 6	00525		
closed) at you	of the following solid r facility? NOTE - <u>DO</u> N IN YOUR PART A APPLI	NOT INCLUDE HA	ent units (ex ZARDOUS WASTE	isting or UNITS
		YES	NO .	
<ul><li>Landfill</li><li>Surface Imp</li></ul>	oundment	<del></del>	X X X X X X	
• Land Farm		<del></del>	X	
<ul><li>Waste Pile</li></ul>			<u>X</u>	
<ul><li>Incinerator</li><li>Storage Tan</li></ul>			$\frac{\Lambda}{X}$	
Storage lan	k (Above Ground) k (Underground)		X	
° Container S	torage Area	X	X X X X	
<ul> <li>Injection w</li> </ul>	lells		X	25
	Treatment Units		X	
° Transfer St	ations		X	
• Waste Recyc	ling Operations ment, Detoxification			
• Other				
provide a desc of in each un- would be cons RCRA. Also in disposed of a of each unit Provide a sit	"Yes" answers to any oription of the wastes it. In particular, plidered as hazardous wanclude any available on the dates of disposand include capacity, e plan if available.	that were sto lease focus on astes or hazard data on quantit sal. Please al dimensions and	whether or no lous constitue ties or volume iso provide a location at	t the waste ents under of wastes description facility.
On June 3	2. 1982. 24 drums	(55 gallons	each) conta	ining a
the state of the s	- £	e chiorolor	III alla accus	.c acra,
	tiod into a tank w	agon and tra	insterred to	The empty
Industri	es in Detroit, Mic re rinsed with wat	er and the r	inse water	
to the a	bove tank wagon -	no spillage.	a a	
	and the second s		- CANADA	
			A STATE OF THE STATE OF	
NOTE: Hazard	dous wastes are those ituents are those list	identified in ted in Appendix	40 CFR 261. VIII of 40 C	Hazardous FR Part 261

in abl	e on any brio	pplication, pleaser or current releasent that may have	e describe ases of haz	for each unit ardous wastes	or constitu	ents
Ple	ase provide t	he following info	rmation			
· .	Date of rele Type of wast Quantity or Describe nat or tank, etc	e released volume of waste r ure of release (i	eleased	none none none overflow, ru none	ptured pipe	
	<u>No release</u>	of any type o	f hazardo	ous waste.		
_		, T	· ·		ווגעוג פח ענה	
plo wh	ease provide ( ich would desc at exists as a zardous waste:	e prior or continu (for each unit) are cribe the nature as a result of such as s or constituents	ny analytic and extent releases. present in	of environment Please focus (	ta: contamin on concentra	tions
plo wh	ease provide ( ich would desc at exists as a zardous waste  No enviror	(for each unit) are cribe the nature of such is or constituents	ny analyticand extent releases. present in	of environment Please focus (	on concentra soil or gro	tions
ple whithathathathathathathathathathathathathat	ease provide ich would desc at exists as a zardous waste:  No environ  No release	(for each unit) are tribe the nature of result of such is or constituents of the nature of the natur	ny analyticand extent releases. present in mation.	al data that i of environmen Please focus contaminated	on concentra soil or gro	tions undwat
I prode the trian	certify under epared under esigned to assue information manage the end of the	for each unit) are ribe the nature of a result of such is or constituents mental contaminates of hazardous penalty of law to my direction or some that qualified submitted. Base system, or those is, the submittal is, and complete. Itting false informat for knowing vices	hat this do upervision d personne d on my in persons di s, to the lam aware mation inc	of environment please focus of contaminated contaminated in accordance properly gat quiry of the prectly responsible to fing the post of my know that there are luding the post of the pos	l attachment with a system and evaluers on or person or	tions undwat tem luate rsons therin- belief t pena fine
I prode the triar 40	certify under cepared under cepared under cepared under cepared under cepared to association manage the certify under cepared under cepared under cepared under cepared under cepared to association commanage the cepared under cepared under cepared under cepared under cepared under cepared to associate commanage the cepared under cepared	for each unit) are ribe the nature of a result of such is or constituents mental contaminates of hazardous penalty of law to my direction or some that qualified submitted. Base system, or those is, the submittal is, and complete. Itting false informat for knowing vices	hat this description of personne don my incompersons districts, to the lam aware mation, incomplations.	of environment please focus of contaminated contaminated in accordance properly gat quiry of the prectly responsible to fing the post of my know that there are luding the post of the pos	l attachment soil or growth a system and evaluation or person or p	tions undwat tem luate rsons thering belief t pena fine